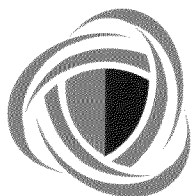


EXHIBIT 78



ION ARMOUR®
NATURAL ANTIMICROBIAL
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Antimicrobial Assessment Report I for Arizant

Antimicrobial Assessment Report I for Arizant

Test Conditions

Date of Testing Completion	June 4, 2009
Test Protocol	ASTM E 2180 – 07
Control Specimens	1"x1" 700 series and 875 series hose material, alcohol sterilized
Test Specimens	1"x1" 700 series and 875 series hose material, IonArmour®- enhanced alcohol sterilized
IonArmour Variant	2X2.1
Test Organism	<i>Escherichia coli</i>
Contact Time	24 hours
Contact Temperature	37°C
Durability Stressing	Standard rinsing

relationship of time/temp.
• minimum required?
• intermittent?

Test Results: Bair Hugger Replacement Hose, 700 series

Organism	Microorganisms recovered at 0 hours (CFU/ml)	Microorganisms recovered from Control samples at 24 hours (CFU/ml)	Microorganisms recovered from IonArmour®- enhanced Test samples at 24 hours (CFU/ml)	Reduction in Microorganisms recovered from IonArmour®- enhanced Test Samples after 24 hours
	Mean	Mean	Mean	Mean
<i>E. coli</i>	1.16×10^5 (116,000)	3.14×10^6 (3,140,000)	<100	>4 log >99.99%

Conclusion: The results demonstrate antimicrobial activity in the IonArmour®-enhanced Bair Hugger 700 series test samples in the presence of significant bioburden.

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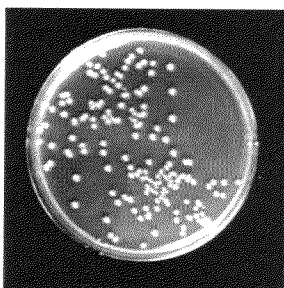
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Test Results: Bair Paws Model 875 Replacement Hose

Organism	Microorganisms recovered at 0 hours (CFU/ml)	Microorganisms recovered from Control samples at 24 hours (CFU/ml)	Microorganisms recovered from IonArmour®-enhanced Test samples at 24 hours (CFU/ml)	Reduction in Microorganisms recovered from IonArmour®-enhanced Test Samples after 24 hours
	Mean	Mean	Mean	Mean
<i>E. coli</i>	1.2×10^5 (120,000)	2.26×10^6 (2,260,000)	<100	>4 log >99.99%

Conclusion: The results demonstrate antimicrobial activity in the IonArmour®-enhanced Bair Hugger 875 Series test samples in the presence of significant bioburden.

Photographs of Plates



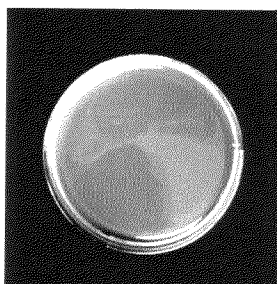
Bacterial plating of a 10^3 dilution of the inoculum at 0 hrs indicating the initial presence of $1.16-1.2 \times 10^5$ colony forming units of *E. coli* per ml of inoculum at the beginning of the ASTM E2180 testing protocol.

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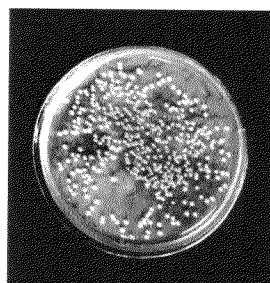


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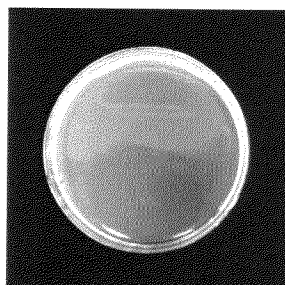


With IonArmour®

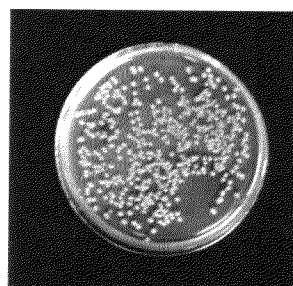


Without IonArmour®

The growth on the plate on the right is from a 10^4 dilution of inoculum and occurs with unenhanced Bair Hugger 700 hose samples, indicating that after 24 hours there were over 3 million bacterial colony forming units per ml of solution in contact with the unenhanced hose, from a starting concentration of around 100,000 bacterial colony forming units. The lack of growth on the plate on the left, from a 10^2 dilution of inoculum, occurs with IonArmour®-enhanced Bair Hugger 700 hose samples and indicates that after 24 hours there were less than 100 bacterial colony forming units per ml of solution in contact with the IonArmour®-enhanced hose.



With IonArmour®



Without IonArmour®

The growth on the plate on the right is from a 10^4 dilution of inoculum and occurs with unenhanced Bair Paws 875 hose samples, indicating that after 24 hours there were over 2 million bacterial colony forming units per ml of solution in contact with the unenhanced hose, from a starting concentration of around 100,000 bacterial colony forming units. The lack of growth on the plate on the left, from a 10^2 dilution of inoculum, occurs with IonArmour®-enhanced Bair Paws 875 hose samples and indicates that after 24 hours there were less than 100 bacterial colony forming units per ml of solution in contact with the IonArmour®-enhanced hose.

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